

SITE C25: H569:02 Erosion and Slide

LEGAL LOCATION: 19-27-18-W4

REFERENCE LOCATION
ALONG HIGHWAY: km 19.7

UTM COORDINATES (NAD83): **N5685950 E395075** (Erosion)
N5686105 E395420 (Slide)

AT FILE: H569:02

AT PLAN & PROFILE:

Date of Initial Observation: 2003

Date of Previous Inspection: May 21, 2003 (KCCL)
(Inspected by) May 18, 2004 (KCCL)

Instruments Installed: None

Instruments Operational:

Reading Dates: None
(Read by)

Risk Assessment: PF(11) * CF(4) = **44**

Last Updated by: Klohn Crippen Consultants Ltd. (KCCL)
Date: May 2004

Location

About 20 km southeast of Drumheller and south of the Red Deer River.

General Description of Site Conditions

A. Erosion Feature

Ditch flows from both sides of the highway have created a very large erosion feature in the side of the valley. The erosion is about 20 m wide by 10 m deep. The CSP culvert that carried flows from the opposite side of the road has been severely undermined and sections have fallen into the void. The inlet of this culvert is now partially blocked with rocks. The barbed wire fence also has unsupported sections.

B. Slide

About 375 m from the erosion, a large slide has formed on the valley slope. The scarp of the slide is about 5 m from the road edge and has a backscarp about 3 m high. The slide is about 20 m wide and generally comprises a series of “blocks” that appear to have slid on a plane towards the base of the valley.

Geotechnical Conditions

Horseshoe Canyon Formation

Chronology (Refer to Section G for Further Information)

~1979

Natural valleys infilled to construct highway.

2003

Slide and erosion first observed, but likely have been on going for some time.

Reports and Documents

May 2003 Inspection Form (KCCL)

May 2004 Inspection Form (KCCL)